

We claim:

1. A microwave unit door with a viewing window (W), wherein said microwave unit door closes a processing space (I) of a microwave unit (10) and comprises a metallic door frame (1), an outer glass pane (2) and an interior glass pane (3), said outer glass pane (2) and said interior glass pane (3) being held spaced apart in the metallic door frame (1), said interior glass pane (3) being closer to the processing space (I) than said outer glass pane (2);

wherein the interior glass pane (3) has at least one optically transparent first layer (13) that absorbs microwave radiation, said at least one optically transparent first layer having a microwave absorption capability, so that said at least one optically transparent first layer (13) heats up to prevent condensate formation on the interior glass pane during operation of the microwave unit; and

wherein the outer glass pane (2) has at least one optically transparent second layer (12) that reflects microwave radiation passing through the at least one optically transparent first layer (13).

2. The microwave unit door as defined in claim 1, wherein said at least one optically transparent first layer (13) is formed on a side of said interior glass pane (3) that is closest to the processing space (I).

3. The microwave unit door as defined in claim 2, wherein said at least one optically transparent first layer (13) is additionally provided with an outer scratch resistant coating (15).
4. The microwave unit door as defined in claim 3, wherein said outer scratch resistant coating (15) is a silicon oxide layer.
5. The microwave unit door as defined in claim 1, wherein said at least one optically transparent first layer (13) is formed on a side of said interior glass pane (3) that is facing away from or furthest from the processing space (1).
6. The microwave unit door as defined in claim 5, wherein the interior glass pane (3) is thinner than the outer glass pane (2).
7. The microwave unit door as defined in claim 1, wherein said at least one optically transparent first layer (13) is provided on both sides of the interior glass pane (3).
8. The microwave unit door as defined in claim 1 or 7, wherein said at least one optically transparent second layer (12) is provided on both sides of the outer glass pane (2).

9. The microwave unit door as defined in claim 1, wherein the at least one optically transparent first layer (13) is a high-ohm electrically conductive layer with a surface resistance of $200 \Omega / \square$ and the at least one optically transparent second layer (12) is a low-ohm electrically conductive layer with a surface resistance of $50 \Omega / \square$.

10. The microwave unit door as defined in claim 9, wherein said high-ohm electrically conductive layer and said low-ohm electrically conductive layer each comprise an indium/zinc oxide (ITO), a fluorine-doped zinc oxide and/or an aluminum-doped zinc oxide.

11. The microwave unit door as defined in claim 9, wherein an inner one of the electrically conductive layers contains high resistance material having NTC behavior.

12. The microwave unit door as defined in claim 9, wherein an inner one of the electrically conductive layers contains high resistance material having a variable resistance that varies according to an applied voltage or a variable current flow.

13. The microwave unit door as defined in claim 1, wherein at least said at least one optically transparent first layer (13) is a transparent sol-gel layer that is doped with nanoscale particles and said nanoscale particles absorb microwave radiation.

14. The microwave unit door as defined in claim 13, wherein said nanoscale particles that absorb microwave radiation are glass ceramic particles (17), which are present in high quartz mixed crystal form.

15. The microwave unit door as defined in claim 1, wherein said at least one optically transparent first layer (13) is an electrically conductive organic layer.

16. The microwave unit door as defined as claim 1, wherein at least said at least one optically transparent first layer comprises a plastic foil (43) and an electrically conductive coating (45) applied to the plastic foil (43).